

PTO-1449

SERIAL NO.
08/873.978

FILING DATE
June 12, 1997

GROUP 1634
~~Not Yet Assigned~~

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	100	Carr et al., "Novel Electrochemical Sensors for Neutral Molecules," <i>Chem. Commun.</i> , 1649-1650 (1997).
AM	101	Carter et al., "Voltammetric Studies of the Interaction of Metal Chelates with DNA. 2. Tris-Chelated Complexes of Cobalt(III) and Iron(II) with 10-Phenanthroline and 2,2'-Bipyridine," <i>J. Am. Chem. Soc.</i> , 11:8901-8911 (1989).
AM	102	Johnston et al., "Trans-Dioxorhenium(V)-Mediated Electrocatalytic Oxidation of DNA at Indium Tin-Oxide Electrodes: Voltammetric Detection of DNA Cleavage in Solution," <i>Inorg. Chem.</i> , 33:6388-6390 (1994).

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 ATTY. DOCKET NO.
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
AM	A	4,707,352	11/17/87	Stavrianopoulos	424	1.1	
AM	B	4,707,440	11/1987	Stavrianopoulos	435	6	
AM	C	4,711,955	12/8/87	Ward, et al.	536	29	
AM	D	4,755,458	7/5/88	Rabbani, et al.	435	5	RECEIVED
AM	F	4,849,513	7/18/89	Smith, et al.	536	27	4-1997
AM	F	4,868,103	9/19/89	Stavrianopoulos, et al.	435	5	GROUP 1800
AM	C	4,894,325	1/16/90	Englehardt, et al.	435	6	
AM	H	4,943,523	7/24/90	Stavrianopoulos	435	7	RECEIVED
AM	I	4,952,685	8/28/90	Stavrianopoulos	536	27	4-1997
AM	J	4,994,373	2/19/91	Stavrianopoulos	435	6	
AM	K	5,002,885	3/26/91	Stavrianopoulos	435	188	GROUP 1800
AM	L	5,013,831	5/7/91	Stavrianopoulos	536	27	

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							Yes	No
AM	M	0 63879	11/3/82	Europe				
AM	N	9 210 757	6/25/92	PCT (WO)				
AM	O	9 515 971	6/15/95	PCT (WO)				
AM	P	0 234938	2/26/87	EP (A2)				

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AM	1	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," <i>J. Phys. Chem.</i> , 100:17050-17058 (1996).					
	2	Arkin, M., et al., "Evidence for Photoelectron Transfer Through DNA Intercalation," <i>Abstracts</i> , p-520.					

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AM	Q	5,082,830	1/21/92	Brakel, et al.	514	44	
AM	R	5,175,269	12/29/92	Stavrianopoulos	536	27	
AM	S	5,241,060	8/31/93	Englehardt, et al.	536	27	
AM	T	5,278,043	1/11/95	Bannwarth, et al.	536	23.1	
AM	U	5,312,527	5/17/94	Mikkelsen, et al.	204	153.12	
AM	V	5,328,824	7/12/94	Ward, et al.	435	6	
AM	W	5,449,767	9/12/95	Ward, et al.	536	24.3	
AM	X	5,472,881	12/95	Beebe, et al.	436	94	
AM	Y	5,476,928	12/19/95	Ward, et al.	536	24	
AM	Z	5,495,908	1/21/97	Fawcett, et al.	534	11	
AM	AA	5,565,552	10/15/96	Magda, et al.	534	11	
AM	BB	5,573,906	11/12/96	Bannwarth, et al.	435	6	
AM	CC	5,591,578	1/7/97	Meade, et al.	435	6	
AM	DD	5,601,982	2/1997	Sargent, et al.	435	6	

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AM	EE	9 310 267	5/27/93	PCT (WO)				
AM	EE	2 090904	9/24/93	CANADA				
AM	GG	0 599337	1/16/94	EPO				
AM	HH	238,166.0	1988	JP (Abstract (63-238166))				
AM	II	0 229943	7/29/87	EP				
AM	JJ	9 640712	12/19/96	WO				

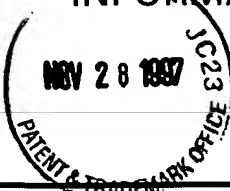
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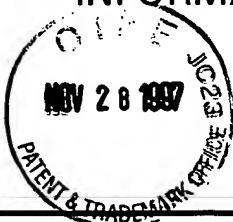
Andin Marschel



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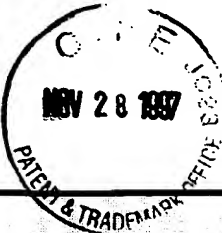

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		APPLICANT Kayyem, et al.	
		FILING DATE June 2, 1997	GROUP Not Assigned 1634
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
AM	3	Barisci, et al., "Conducting Polymer Sensors," <i>TRIP</i> , 4(9):307-311 (1996).	
AM	4	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," <i>C&EN</i> , pp 20-23 (1993).	
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AM	6	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review.," <i>Sensors and Actuators</i> , B6:45-56 (1992).	
AM	7	Biotechnology and Genetics: Genetic Screening Integrated Circuit," <i>The Economist</i> (February 25-March 3, 1995).	
AM	8	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," <i>Solid State Ionics</i> , 60:189-197 (1993).	
AM	9	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," <i>Progress in Inorganic Chemistry: Bioinorganic Chemistry</i> , 38:259-322 (1990).	
AM	10	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," <i>J. Am. Chem. Soc.</i> , 113:8153-8159 (1991).	
AM	11	Bumm, et al., "Are Single Molecular Wires Conducting?," <i>Science</i> 271:1705-1707 (1996).	
AM	12	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383 (1992).	
AM	13	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocycytochrome c by Ru(2,2'-bpy) ₂ (im)(His-33) ³⁺ ," <i>J. Am. Chem. Soc.</i> , 113:7056-7057 (1991).	
AM	14	Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," <i>Science</i> , 251:919-923 (1991).	
AM	15	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," <i>J. Am. Chem. Soc.</i> , 112:4301-4306 (1990).	
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AM	16	Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," <i>Nucleic Acids Research</i> , 24(15):3031-3039 (1996).	
AM	17	Clery, "DNA Goes Electric," <i>Science</i> , 267:1270 (1995).	
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AM	19	DATABASE WPI, Derwent Publications Ltd., London, GB; AN 88-320199 & JP, A, 53 238 166 (MITSUBISHI DENKI KK), 4 October 1988.	
AM	20	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," <i>Chem.-Biol. Interactions</i> , 62:45-58 (1987).	
AM	21	Davis, L. M., et al., "Elements of biosensor construction," <i>Enzyme Microb. Technol.</i> 17:1030-1035 (1995).	
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AM	25	Deinhammer, R.S., et al., "Electronchemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," <i>Langmuir</i> , 10:1306-1313 (1994).	
AM	26	Dreyer, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA-Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> , 82:968-972 (1985).	
AM	27	Durham, B., et al., "Photoinduced Electron-Transfer Kinetics of Singly Labeled Ruthenium Bis(bipyridin) Dicarboxybipyridine Cytochrome c Derivatives," <i>Biochemistry</i> , 28:8659-8665 (1989).	
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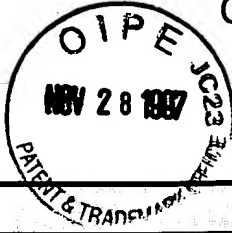
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AM	30	Farver, O., et al., "Long-range intramolecular electron transfer in azurins," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6968-6972 (1989).	
AM	31	Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," <i>Science</i> , 247:1069-1071 (1990).	
AM	32	Fox, M. A., et al., "Light-Harvesting Polymer Systems," <i>C&EN</i> , pages 38-48 (March 15, 1993).	
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AM	36	Gardner, et al., "Application of conducting polymer technology in microsystems," <i>Sensors and Actuators</i> , A51:57-66 (1995).	
AM	37	Gregg, B. A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," <i>Anal. Chem.</i> , 62:258-263 (1990).	
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AM	39	Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," <i>Anal. Chem.</i> 66:3830-3833 (1994).	
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AM	43	Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," <i>Fed. Proc.</i> 46(6):1968 (1987) Abstract No. 248.	
AM	44	Ho "DNA-Mediated Electron Transfer and Application to 'Biochip' Development," <i>Abstract. Office of Naval Research</i> (Report Date: July 25, 1991) 1-4, RR04106.	
AM	45	Hobbs et al., "Polynucleotides Containing 2'-Amino-2'-deoxyribose and 2'-Azido-2'-deoxyribose," <i>Biochemistry</i> , 12(25):5138-5145 (1973).	
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AM	47	Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," <i>Tetrahedron Letters</i> . 36(26):4525-4528 (1995),	
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AM	49	Katritzky, et al., "Pyridylethylation - A New Protection Method for Active Hydrogen Compounds," <i>Tetrahedron Letters</i> , 25(12):1223-1226 (1984).	
AM	50	Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," <i>Bioconjugate Chem.</i> , 8:31-37 (1997).	
AM	51	Kojima et al., "A DNA Probe of Ruthenium Bipyridine Complex Using Photocatalytic Activity," <i>Chemistry Letter</i> , pp 1889-1982 (1989).	
AM	52	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part I: Theoretical and Experimental Study of a Quasi-Reversible Reaction in the Case of a Langmuir Isotherm," <i>J. Electroanal. Chem.</i> , 97:135-149 (1979).	
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AM	64	Millan, K.M., et al., "Covalent Immobilization of DNA onto Glassy Carbon Electrodes," <i>Electroanalysis</i> , 4:929-932 (1992).	
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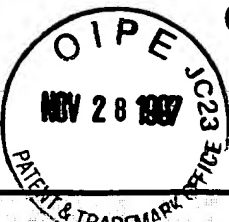
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EXAMINER <i>Adam Marschel</i>			
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^R Ardin Marschof

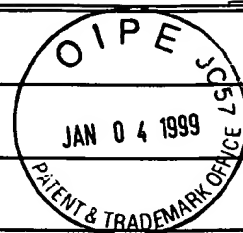
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							Yes	No
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AM	C	93/10267	05/27/93	WO, Link et al.	_____	_____		
AM	D	90/05732	05/31/90	WO, Barton	_____	_____		
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